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## **CLAIMS:**

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1 A composition comprising: 1. 2 a) a white pigment or extended white pigment surface treated with a silane 3 having at least one functional group capable of reacting with acids and 4 anhydrides; 5 b) at least one polymeric material; and c) a compatibilizer. 6 2. The composition of Claim 1 wherein said silane has the following general 1 2 formula:  $R_xSi(R')_{4x}$ 3 wherein 4 5 R is a nonhydrolyzable functional group directly or indirectly bonded to the silicon atom selected from the group consisting of epoxy, isocyanato, 6 7 mercapto, and mixtures thereof; R' is a hydrolyzable group selected from the group consisting of alkoxy, 8 9 halogen, acetoxy or hydroxy or mixtures thereof; and 10 x = 1 to 3.The composition of Claim 1 wherein said pigment is TiO<sub>2</sub>. 3. 1 The composition of Claim 1 wherein said extended white pigment is selected 4. 1 2 from clays, inorganic metal compounds and siliceous materials. 3 The composition of Claim 1 wherein said compatibilizer comprises copolymers

of ethylene or propylene with anhydride or acid groups which are capable of

reacting with the functional groups of the at least one polymeric material.

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1	6.	The composition of Claim 1 wherein said compatibilizer comprises copolymers
2		selected from the group consisting of ethylene maleic anhydride copolymers
3		ethylene (meth)acrylic acid copolymers, propylene maleic anhydride
4	•	copolymers, propylene acrylic acid copolymers, ethylene propylene
5		copolymers with maleic anhydride or acid functional groups, and olefinion
6		ionomer resins

- The composition of Claim 1 wherein said compatibilizer is present at a
  concentration of about 0.5wt.% to about 20wt.% based on a total weight of the
  composition.
- 1 8. The composition of Claim 1 wherein said compatibilizer is present at a concentration of about 1% to about 10% by weight of the total composition.
- 1 9. The composition of Claim 1 wherein said filler or pigment is present at a concentration of about 40wt.% to about 85wt.% based on a total weight of the composition.
- 1 10. The composition of Claim 1 further comprising at least one lubricant selected 2 from the group consisting of polysiloxanes, silicone fluids, stearates, paraffinic 3 oils, fluorocarbon fluids, and mixtures thereof.
- The composition of Claim 10 wherein said lubricant is a polysiloxane selected
  from the group consisting of polydimethylsiloxane and organomodified
  polydimethylsiloxane.
- 1 12. The composition of Claim 13 wherein said lubricant is present from about 0.05wt.% to about 5wt.% based on a total weight of the composition.

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materials.

1	13.	The composition of Claim 1 wherein said silane is present on the surface of said
2		pigment or extended white pigment in an amount of about 0.1wt.% to about
3	*	5wt.% based on a weight of said pigment or extended white pigment.
1	14.	The composition of Claim 1 wherein said polymeric material is selected from
2		the group consisting of olefins and alphaolefins and their copolymers and
3		terpolymers, rubbery block copolymers, polyamides, polyesters, vinylic
4		polymers, acrylics, epoxies, ionomeric resins, and mixtures thereof.
1	15.	The composition of Claim 14 wherein said polymeric material is selected from
2		the group consisting of polyethylene, ethylene copolymers, polypropylene,
3		propylene copolymers, and mixtures thereof.
1	16.	A white pigment surface treated with at least one silane capable of reacting with
2	10.	acids and anhydrides and having the following general structure:
3		R <sub>x</sub> Si(R') <sub>4-x</sub>
4		wherein
5		R is a nonhydrolyzable functional group directly or indirectly bonded
6		to the silicon atom selected from the group consisting of epoxy, isocyanato,
7		mercapto, and mixtures thereof;
8		R' is a hydrolyzable group selected from the group consisting of alkoxy,
9		halogen, acetoxy or hydroxy or mixtures thereof; and
10		x = 1  to  3.
1	17.	The white pigment of Claim 16 wherein said white pigment is selected from
2		the group consisting of clays, inorganic metal compounds and siliceous

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1	18.	The white pigment of Claim 16 wherein said white pigment is selected from
2		the group aluminum trihydroxide, magnesium hydroxide, calcined clay,
3	t	nanoclay, kaolin clay, oxidized brass, oxidized aluminum, oxidized steel,
4		alumina, aluminum trihydrate, fumed silica, precipitated silica, silica aerogels,
5		silica xerogels, aluminum silicates, calcium magnesium silicates, asbestos,
6		molecular sieves, Wallostonite, calcium carbonate, titanium dioxide, calcium
7		sulphate, magnesium sulfate, calcium carbonates having a silica coating, calcium
8		carbonates agglomerated to silica, and mixtures thereof.
1	19.	The white pigment of Claim 16 wherein said white pigment is TiO <sub>2</sub> .
1	20.	A white pigment or extended white pigment having enhanced processability
2		and dispersion in polymeric material surface treated with a silane having a
3		structure of:
4		$R_x Si(R')_{4.x}$
5		wherein
6		R is a nonhydrolyzable functional group directly or indirectly bonded
7		to the silicon atom selected from the group consisting of epoxy, isocyanato,
8		mercapto, and mixtures thereof;
9		R' is a hydrolyzable group selected from the group consisting of alkoxy,
10		halogen, acetoxy or hydroxy or mixtures thereof; and
11		x = 1  to  3;  and
12		a polysiloxane having a structure of:
13		$(R"_nSiO_{(4-n)/2})_m$
14		wherein

R" is an organic or an inorganic group;

m is equal to or greater than 2.

n is 0 to 3; and